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D R A F T
3 July 1968

Questions Concerning Existing Performance Criteria as it Pertains to Follow-on Equipment

A. Printer

1. Liquid Gate: Existing printer cannot prove or disprove the benefit of liquid gate printing due to unevenness of platens and glass donut.

2. X-Y-θ requirement - Existing printer will perform this action - will same motions be required for follow-on.

3. Resolution - Require maximum resolution. Present printer cannot achieve maximum resolution due to uneveness of platens (Max average = 275 l/mm).

4. Output speed - Present design - 10/minute established by processor capability. This speed pertains to printing same frame after initial setup. (Up to 15 minutes for setup).

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5. Transport system - Handles 70mm thru 9 1/2" (2 separate systems). Follow-on - single or multiple sizes?

6. Output film size - Present printer outputs 4" X 5" (55mmx116mm and 80mm X 116 min image size). Follow-on will be crossframe printing (4 X 6) only?

7. Security - Presently shown one location. Follow-on requirements? Location of facility?

8. Code Information - Present capability - 80 alpha numerics 128 machine readable. Full data block requires 15" for input. Follow-on requirements accession # w/date in RSM or computer?

9. Fiducial marks - On present printer to indicate ~~so roget~~ target center. Can be applied to follow-on but what accuracy is required and how obtained (ephimeral data).

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10. Print copies - Unlimited on present system. Follow-on to be decided.

11. AEC - On present equipment - operation faulty. Should be included in follow-on.

12. Mensuration - Present system based on fiducials and code information in data block. Follow-on - See #8.

13. Positional Accuracy (X-Y-~~θ~~) - Present system calls for $\pm$ 0.10mm and $\pm$ 0.10°. Any requirement in follow-on equipment.

14. Auxiliary viewer - Present printer has 10X auxiliary viewer for fine positioning by operator if necessary. If cross-frame (X only) printed, aux viewer may not be needed.

15. Transport Speeds - Slow and slew speeds available. Should probably be on follow-on.

16. Output film - Present system is 4" X 5" cut film in film holder for processing. Consideration of cut film versus roll film.

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B. Processor

1. Chip System - Requires film holders for travel through processor. Follow-on-how handled, roll or cut film??

2. Processor types - At time of inception of chip processor there was no cut film processor capable of handling 4" x 5" size, so one was built. There are now commercial processors to handle Microfiche (4" x 6" and larger) and other cut film (Modified Versimat may be best approach).

3. Speed - Presently set for 10 chips/minute. Requirement for faster operation is doubtful.

4. Archieval Quality - Sufficient tanks to provide for hypo eliminator and thorough washing in present machine. Definitely a requirement for any follow-on.

5. Load capability - Current processor limited to 34 film holders per magazine. Follow-on??

6. Transport system - Belt transport on present machine. If holders are used, a similar method will have to be employed on follow-on equipment.

7. Size limitation - Present processor limited to 4" x 5" only. Can be modified to handle 4" x 6" [redacted] This does not include

25X1A new magazines and holders.

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